Claim Listing:

- 1-33. (Cancelled)
- 34. (Cancelled)
- (Previously Presented) A multi-tier system for digital radio communication, comprising:
 - a processor-based host adapted to control a remote unit;
 - a first-tier base station communicatively coupled to the host;
 - a first second-tier base station communicatively coupled to the first-tier base station;
 and
 - a second second-tier base station wirelessly coupled to the first second-tier base station, wherein the second second-tier base station is intermediate the first second-tier base station and the remote unit, and wherein the first second-tier base station is capable of communicating with the second second-tier base station without an intervening first-tier base station,
 - wherein the host is adapted to control the remote unit through the first-tier base station, the first second-tier base station, and the second second-tier base station, and wherein the second second-tier base station is adapted to go into a sleep mode for a preselected interval, wherein before entering the sleep mode, the second second-tier base station transmits an indication representative of the duration of the preselected interval to the remote unit.

- 36. (Previously presented) The system of claim 35, wherein the duration of the preselected interval is defined by a start and end time of the preselected interval.
- (Currently Amended) The system of claim [[34]] 35, wherein the second second-tier base station each of the plurality of additional second-tier base stations is adapted to:

buffer data intended for the remote unit;

transmit an indication at predetermined intervals to inform the remote unit of the presence of buffered data;

receive a request from the remote unit; and

provide the buffered data to the remote unit in response to receiving the request from the

- (Currently Amended) The system of claim [[34]] 35, wherein at least one the remote unit comprises a data collection device.
- (Currently Amended) The system of claim [[34]] 35, wherein at least one the remote unit comprises a bar code reader or an RFID reader.
- 40. (Currently Amended) The system of claim [[34]] 35, wherein at least one the remote unit comprises at least one of a vending machine, a door locking mechanism, a computer peripheral, a thermostat, and a pager.

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41. (Currently Amended) The system of claim 40, wherein at least one the remote unit comprises a computer peripheral selected from the group comprising a printer, modem, handheld terminal, point of sale station, and other serial or parallel devices.

42. (Cancelled)

- (Currently Amended) The system of claim [[34]] 35, wherein the first-tier base station is wirelessly connected to the host through a local area network.
- (Currently Amended) The system of claim [[34]] 35, wherein the first secondtier base station is connected to the first-tier base station through a serial port.

45. (Cancelled)

46. (Currently Amended) The system of claim [[34]] 35, wherein the second second-tier base station communicates plurality of additional second-tier base stations communicate with the first-tier base station through the first second-tier base station.

- 47. (Cancelled)
- 48. (Cancelled)
- (Previously Presented) A multi-tier system for digital radio communication, comprising:
 - a processor-based host adapted to control a remote unit through a control signal;
 - a first-tier base station adapted to receive the control signal from the host, wherein the first-tier base station operates in accordance with a first communication protocol;
 - a first second-tier base adapted to receive the control signal from the first-tier base station, wherein the first second-tier base station and the first-tier base station communicate using the first communications protocol; and
 - a second second-tier base station wirelessly coupled to the first second-tier base station,
 wherein the second second-tier base station is intermediate the first second-tier
 base station and the remote unit, and wherein the second second-tier base station
 is adapted to receive the control signal from the first second-tier base station
 using a different communications protocol from the first communications
 protocol and to provide the control signal to the remote unit, and
 - wherein the second second-tier base station is adapted to go into a sleep mode for a

 preselected interval, wherein before entering the sleep mode, the second secondtier base station transmits an indication representative of the duration of the

 preselected interval to the remote unit.

- (Previously presented) The system of claim 49, wherein the duration of the preselected interval is defined by a start and end time of the preselected interval.
 - 51. (Cancelled)
 - 52. (Cancelled)
- 53. (Currently Amended) The system of claim [[34]] 49, wherein the second second-tier base station each of the plurality of additional second-tier base stations is adapted to:

transmit an associate command to the remote unit;

receive a message from the remote unit in response to the associate command, wherein the message comprises an identifier associated with the remote unit; and transmit a synchronization interval to the remote unit in response to receiving the message.

54. (Previously Presented) The system of claim [[48]] 49, wherein the second second-tier base station each of the plurality of additional second-tier base stations is adapted to:

transmit an associate command to the remote unit;

receive a message from the remote unit in response to the associate command, wherein the message comprises an identifier associated with the remote unit; and

transmit a synchronization interval to the remote unit in response to receiving the message.

- (Cancelled)
- (Previously Presented) A multi-tier system for digital radio communication, comprising:
 - a processor-based host adapted to control a remote unit;
 - a first-tier base station communicatively coupled to the host, wherein the first-tier base station operates in accordance with a first communication protocol;
 - a first second-tier base station communicatively coupled to the first-tier base station,
 wherein the first second-tier base station and the first-tier base station
 communicate using the first communications protocol; and
 - a second-tier base station wirelessly coupled to the first second-tier base station,
 wherein the second second-tier base station is intermediate the first second-tier
 base station and the remote unit, and wherein the second-tier base stations have a
 shorter transmission range relative to that of the first-tier base station,
 - wherein the host is adapted to control the remote unit through the first-tier base station, the first second-tier base station, and the second second-tier base station, and wherein the second second-tier base station is adapted to go into a sleep mode for a preselected interval, wherein before entering the sleep mode, the second second-tier base station transmits an indication representative of the duration of the

preselected interval to the remote unit.

- (Previously presented) The system of claim 56, wherein the duration of the preselected interval is defined by a start and end time of the preselected interval.
- 58. (Currently Amended) The system of claim [[55]] <u>56</u>, wherein <u>the second</u>
 second-tier base station each of the plurality of additional second-tier base stations is adapted to:

transmit an associate command to the remote unit;

receive a message from the remote unit in response to the associate command, wherein
the message comprises an identifier associated with the remote unit; and
transmit a synchronization interval to the remote unit in response to receiving the
message.